

PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

Improvements in Vacuum Cleaners.

We, ELECTROLUX LIMITED, of 153 & 155, Regent Street, London, W. 1, a British Company, (Assignees of INVENTIA PATENT-VERWERTUNGS-GESELLSCHAFT, of Herrenacker 10, Schaffhausen, Switzerland, a body corporate organised under the laws of Switzerland), do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to portable vacuum cleaners. With portable vacuum cleaners for domestic purposes a definite number of accessory parts is included such as connecting tubes, connecting pipes, and nozzles of different kinds. These accessories result in an inconvenient storage of the cleaner as a whole. In order to remedy this defect special cabinets, or boxes, are sometimes provided which serve for the reception of domestic cleaning apparatus, and the inside of which is fitted with special places, not only for the vacuum cleaner, but also for the additional vacuum cleaner accessories. These cabinets or boxes, while solving the problem of convenient storage of the vacuum cleaner and its accessories, cannot, however, be installed everywhere, and on account of the relatively high price cannot be afforded by everybody.

There is with a portable vacuum cleaner a further disadvantage, which resides in the fact that during utilisation the vacuum cleaner, with all its different accessories, is inconvenient to carry. When the vacuum cleaner is to be used a relatively large number of elements must be carried by the operator from the box to that room which is to be cleaned. The larger the number of accessories the more inconvenient will be the carrying of the cleaner from one room to another.

The object of this invention is to avoid these disadvantages. According to the present invention devices adapted to receive and hold accessory parts of the cleaner such as hoses, tubes and nozzles, are arranged externally on the cleaner casing.

The invention will be hereinafter described with reference to the accom-

panying drawings, showing two embodiments thereof in which:—

Figures 1 and 2 show a portable vacuum cleaner of the horizontal type—in side and front elevation respectively. Figures 3 and 4 show two views of a vacuum cleaner of the pot type in elevation, displaced relatively to one another through 90°.

According to figures 1 and 2 the horizontal vacuum cleaner has an essentially cylindrical form. On the outer casing of this cleaner are arranged different devices which are adapted to receive and hold the accessory parts, and so make it possible to carry them on the cleaner. On the upper part of the cleaner a vertical plate (a) is secured which has an opening (b) formed in its upper part leaving a strip (c) which forms a handle for lifting and carrying the cleaner. On this vertical plate (a) are arranged lateral pockets (d) and (e) into which the different nozzles (e), (f) and (g) can be inserted. The construction of these pockets will not be detailed herein. They can, however, be constructed so that the nozzles just fit therein, or they can consist of resilient tongues which engage the nozzles and hold them fast, so that they cannot, by themselves, fall out of the pockets. Laterally of the cleaner housing V shaped hooks (h) are arranged, in which the suction hoses and tubes will lie, for example, at the bottom a suction tube (i), and on this the hose (j), which in accordance with its length can be coiled round the cleaner casing one or more times in a longitudinal direction. These hooks are preferably formed resiliently, so that they hold the pipes and hoses inserted therein in such a manner that they cannot fall out, but can only be taken out when required by the operator.

In this manner it is possible to arrange all the vacuum cleaner accessories on the outside of the cleaner, so that all the accessories have their correct places, and during non-use can always remain connected with the vacuum cleaner, and so that the whole apparatus can be transferred from one room to another easily by lifting by means of the handle (c). The

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inconvenience resulting from picking up the loose individual parts is thus avoided.

There results, however, therefrom, a further advantage, namely that the cleaner with all its accessories can be stored conveniently and orderly, immaterially as to where it is to be stored, whether in a cabinet or in a room; whether by placing it on a support, or by suspending it from the handle; and there is always only one unit to be stored. The unavoidable untidiness and inconvenience hitherto apparent on storing the vacuum cleaner is thus avoided.

As can be seen from the drawings, the construction of the vacuum cleaner as such is immaterial for carrying out the invention.

The invention can also be applied quite simply to vacuum cleaners of the pot type as is shown in figures 3 and 4. The cover of the vacuum cleaner (*k*) is provided with a plurality of V shaped hooks (*l*), preferably resiliently constructed, into which the hose can be coiled. Laterally of the cover, for example on the casing of the vacuum cleaner, hooks (*m*) and (*n*) preferably also resilient, are arranged, into which the connecting pipes (*o*) are inserted. In a similar way the securing of the separate nozzles (*p*), (*q*), (*r*), and (*s*) is effected by means of springs and clamps or hooks which are secured on the outer casing of the vacuum cleaner.

In this case, also, the members adapted to receive the accessories of the cleaner need not be constructed as described for example, in the place of springs, clamps or hooks (*m*) and (*n*), rings or sockets can be provided into which the pipes are inserted from above. The different

nozzles can be inserted into pocket-like containers.

Also with the pot vacuum cleaner, the advantages obtained by the invention are convenient storage of the accessories, and the convenience when moving the whole apparatus, in which case the operator can take hold of the handle (*u*), and then he has the apparatus, with all accessories, ready to be transported by means of the handle.

Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—

(1) A portable vacuum cleaner in which devices adapted to receive and hold the accessory parts of the cleaner are arranged externally on the cleaner casing.

(2) Supporting means for vacuum cleaner accessories comprising hooks, pockets or the like adapted to receive and hold said accessories and formed so as to be mounted on the vacuum cleaner casing.

(3) A portable vacuum cleaner of the horizontal type provided with devices for receiving and holding the accessory parts constructed and arranged substantially as described with reference to figures 1 & 2.

(4) A portable vacuum cleaner of the pot type, provided with devices for receiving and holding the accessory parts constructed and arranged substantially as described with reference to figures 3 & 4.

Dated the 17th day of February, 1930.

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FIG. 1.

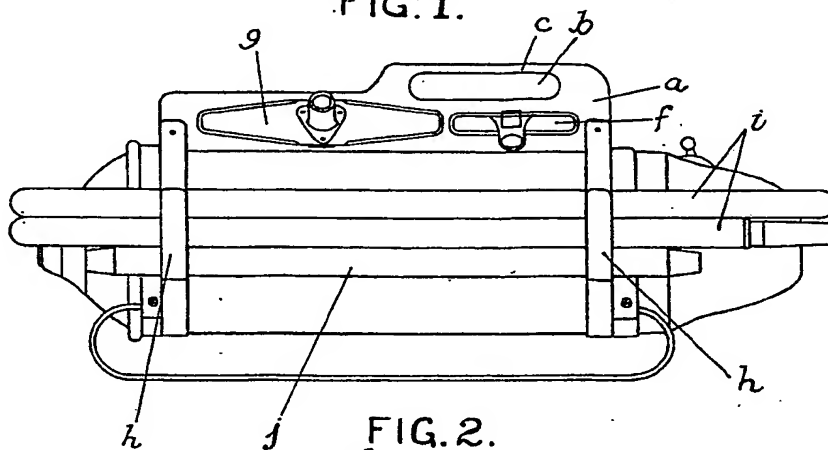


FIG. 2.

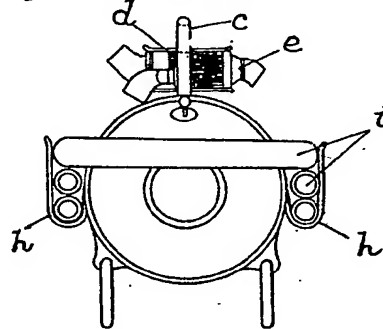


FIG. 3.

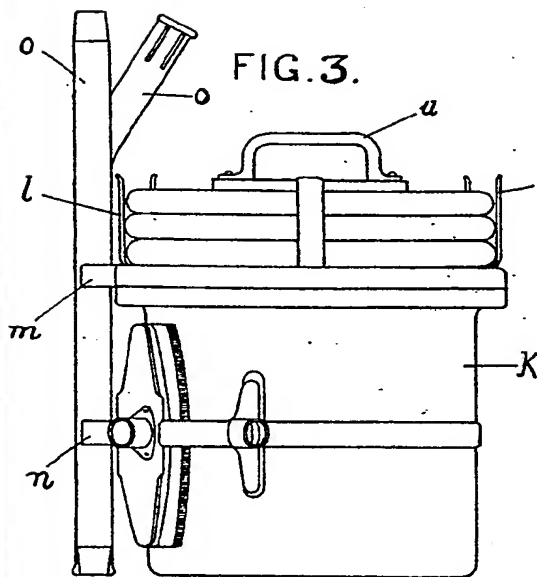
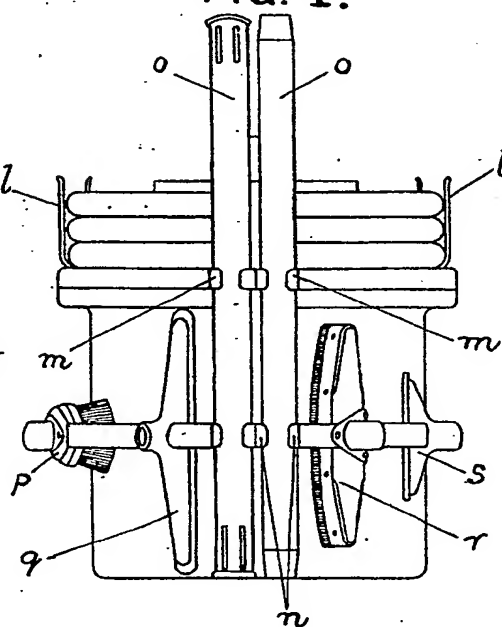


FIG. 4.



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[This Drawing is a reproduction of the Original on a reduced scale.]

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